

CLAIMS

What is claimed is:

1. A cabin services system for use with mobile platforms, the cabin services system comprising:
  - 5 a plurality of subsystems providing one or more operations within a cabin of a mobile platform;
  - a controller for controlling the one or more operations of the plurality of subsystems; and
- 10 one or more busses connecting each of the plurality of subsystems to the controller, the one or more busses being of the same type.
2. The cabin services system according to claim 1, further comprising:
  - 15 a plurality of switches for controlling transmission of data between the plurality of subsystems and the controller via the one or more busses.
3. The cabin services system according to claim 2, wherein the plurality of switches are configured in one of a series and star configuration.
- 20 4. The cabin services system according to claim 1, further comprising:
  - one or more programmable modules associated with one or more of the plurality of subsystems, with the controller configured to control the one or more operations via the one or more busses using the programmable modules.
- 25 5. The cabin services system according to claim 4, wherein the one or more programmable modules comprise at least one of (i) light modules for controlling lighting operations within the cabin, (ii) signs modules for controlling signs within the cabin, and (iii) audio modules for controlling audio operations within the cabin.
- 30 6. The cabin services system according to claim 1, further comprising:
  - one or more crew interfaces connected to one or more of the plurality of subsystems via the one or more busses.

7. The cabin services system according to claim 1, wherein the plurality of subsystems comprise at least one of an audio subsystem, a lighting subsystem, and a crew interface subsystem.
- 5 8. The cabin services system according to claim 1, wherein the controller comprises one or more lookup tables having control information therein for use in controlling the plurality of subsystems.
- 10 9. The cabin services system according to claim 8, wherein the one or more lookup tables comprise control commands associated with one or more states of the plurality of subsystems.

10. A mobile platform having a cabin services system for controlling lighting and audio operations within a cabin of the mobile platform, the mobile platform comprising:
  - a plurality of passenger seats;
- 5 a plurality of lighting and audio components within the cabin, each of the plurality of lighting and audio components associated with one or more of the plurality of passenger seats;
  - a plurality of programmable modules associated with the plurality of lighting and audio components; and
- 10 a controller for controlling operation of the plurality of lighting and audio components using the plurality of modules, the plurality of modules connected to the controller via busses having the same bus type.

11. The mobile platform according to claim 10, wherein the plurality of programmable modules comprise at least one of (i) light modules for controlling the lighting components and (ii) audio modules for controlling audio components.
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12. The mobile platform according to claim 10, further comprising:
  - crew interfaces for operating the lighting and audio components.
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13. The mobile platform according to claim 12, wherein the crew interfaces comprise at least one of audio handsets and panel displays.
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14. The mobile platform according to claim 10, wherein the programmable modules comprise programmable switchees.
15. The mobile platform according to claim 10, wherein the busses comprise LAN busses.
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16. The mobile platform according to claim 10, wherein the lighting components comprise at least one of passenger cabin lighting and emergency cabin lighting.

17. The mobile platform according to claim 10, wherein the audio components comprise at least one of handsets and cabin speakers.

18. A method of controlling operations within a cabin of a mobile platform, the method comprising:
  - connecting one or more programmable modules to one or more busses, the one or more busses being of the same type;
  - 5 receiving information from at least one of the mobile platform, the crew of the mobile platform, and the passengers on the mobile platform; and
  - selectively activating one or more programmable modules for controlling operations within the cabin in response to the information.
- 10 19. The method according to claim 18, further comprising:
  - determining control commands for controlling the programmable modules using a lookup table.
- 15 20. The method according to claim 18, wherein the programmable modules are configured to control operation of at least one of cabin lighting and cabin audio operations.